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Terms	Documents	
L14 and optimiz\$6	4	

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	Derwent World Patents Index
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Set Name	Query	Hit Count	Set Name
side by side			result set
DB=USF	PT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
<u>L15</u>	L14 and optimiz\$6	4	<u>L15</u>
<u>L14</u>	L12 and search engine\$1	8	<u>L14</u>
<u>L13</u>	L12 and constraint descriptor\$1	0	<u>L13</u>
<u>L12</u>	((707/516)!.CCLS.)	87	<u>L12</u>
<u>L11</u>	L8 and (translat\$4 same query)	158	<u>L11</u>
<u>L10</u>	L9 and (translat\$4 same logical expression\$1)	0	<u>L10</u>
<u>L9</u>	L8 and logical expression\$1	24	<u>L9</u>
<u>L8</u>	search engine\$1	2347	<u>L8</u>
<u>L7</u>	L6 and search engine\$1	3	<u>L7</u>
. <u>L6</u>	L5 and logical expression\$1	8	<u>L6</u>
<u>L5</u>	(query same SQL same translat\$4)	281	<u>L5</u>
<u>L4</u>	5913214.pn.	2	<u>L4</u>
<u>L3</u>	6102969.pn.	2	<u>L3</u>
<u>L2</u>	5826258.pn.	3	<u>L2</u>
<u>L1</u>	6052693.pn.	2	<u>L1</u>

END OF SEARCH HISTORY

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#### Search Results - Record(s) 1 through 24 of 24 returned.

1. Document ID: US 6356936 B1

L9: Entry 1 of 24

File: USPT

Mar 12, 2002

US-PAT-NO: 6356936

DOCUMENT-IDENTIFIER: US 6356936 B1

TITLE: Relevance clause for computed relevance messaging

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw Desc Image

2. Document ID: US 6351747 B1

L9: Entry 2 of 24

File: USPT

Feb 26, 2002

US-PAT-NO: 6351747

DOCUMENT-IDENTIFIER: US 6351747 B1

TITLE: Method and system for providing data to a user based on a user's query

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KVMC Draw Desc Image

3. Document ID: US 6341277 B1

L9: Entry 3 of 24

File: USPT

Jan 22, 2002

US-PAT-NO: 6341277

DOCUMENT-IDENTIFIER: US 6341277 B1

TITLE: System and method for performance complex heterogeneous database queries using a single SQL expression

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

4. Document ID: US 6339832 B1

L9: Entry 4 of 24

File: USPT

Jan 15, 2002

US-PAT-NO: 6339832

DOCUMENT-IDENTIFIER: US 6339832 B1

TITLE: Exception response table in environment services patterns

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWC Draw Desc Image

5. Document ID: US 6332163 B1

L9: Entry 5 of 24

File: USPT

Dec 18, 2001

.US-PAT-NO: 6332163

DOCUMENT-IDENTIFIER: US 6332163 B1

TITLE: Method for providing communication services over a computer network system

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image

6. Document ID: US 6326962 B1

L9: Entry 6 of 24

File: USPT

Dec 4, 2001

US-PAT-NO: 6326962

DOCUMENT-IDENTIFIER: US 6326962 B1

TITLE: Graphic user interface for database system

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWC | Draw Desc | Image |

7. Document ID: US 6289382 B1

L9: Entry 7 of 24 | File: USPT | Sep 11, 2001

US-PAT-NO: 6289382

DOCUMENT-IDENTIFIER: US 6289382 B1

TITLE: System, method and article of manufacture for a globally addressable interface in a communication services patterns environment

Full Title Citation Front Review Classification Date Reference Sequences Attachments | KWC Draw Desc Image

L9: Entry 8 of 24

File: USPT

Jul 17, 2001

US-PAT-NO: 6263362

DOCUMENT-IDENTIFIER: US 6263362 B1

TITLE: Inspector for computed relevance messaging

Full Title Citation Front Review Classification Date Reference Sequences Attachments KNMC Draw. Desc Image

9. Document ID: US 6263328 B1

L9: Entry 9 of 24

File: USPT

Jul 17, 2001

US-PAT-NO: 6263328

DOCUMENT-IDENTIFIER: US 6263328 B1

TITLE: Object oriented query model and process for complex heterogeneous database queries

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

10. Document ID: Us 6256664 B1

L9: Entry 10 of 24

File: USPT

Jul 3, 2001

US-PAT-NO: 6256664

DOCUMENT-IDENTIFIER: US 6256664 B1

TITLE: Method and apparatus for computed relevance messaging

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

11. Document ID: US 6256623 B1

L9: Entry 11 of 24

File: USPT

Jul 3, 2001

US-PAT-NO: 6256623

DOCUMENT-IDENTIFIER: US 6256623 B1

TITLE: Network search access construct for accessing web-based search services

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC | Draw Desc | Image

12. Document ID: US 6205441 B1

L9: Entry 12 of 24

File: USPT

Mar 20, 2001

US-PAT-NO: 6205441

DOCUMENT-IDENTIFIER: US 6205441 B1

TITLE: System and method for reducing compile time in a top down rule based system using rule

heuristics based upon the predicted resulting data flow

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWMC | Draws Desc | Image

13. Document ID: US 6182067 B1

L9: Entry 13 of 24

File: USPT

Jan 30, 2001

US-PAT-NO: 6182067

DOCUMENT-IDENTIFIER: US 6182067 B1

TITLE: Methods and systems for knowledge management

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

14. Document ID: US 6151610 A

L9: Entry 14 of 24

File: USPT

Nov 21, 2000

US-PAT-NO: 6151610

DOCUMENT-IDENTIFIER: US 6151610 A

TITLE: Document display system using a scripting language having container variables setting

document attributes

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

15. Document ID: US 6099575 A L9: Entry 15 of 24 File: USPT Aug 8, 2000 US-PAT-NO: 6099575 DOCUMENT-IDENTIFIER: US 6099575 A TITLE: Constraint validity checking Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw Desc Image 16. Document ID: US 6021405 A L9: Entry 16 of 24 File: USPT Feb 1, 2000 US-PAT-NO: 6021405 DOCUMENT-IDENTIFIER: US 6021405 A TITLE: System and method for optimizing database queries with improved performance enhancements Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw Desc Image 17. Document ID: US 5966126 A L9: Entry 17 of 24 File: USPT Oct 12, 1999 US-PAT-NO: 5966126 DOCUMENT-IDENTIFIER: US 5966126 A TITLE: Graphic user interface for database system Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC Draw Desc Image 18. Document ID: US 5940843 A L9: Entry 18 of 24 File: USPT Aug 17, 1999 US-PAT-NO: 5940843 DOCUMENT-IDENTIFIER: US 5940843 A TITLE: Information delivery system and method including restriction processing Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw Desc Image 19. Document ID: US 5913215 A

L9: Entry 19 of 24 File: USPT

Jun 15, 1999

US-PAT-NO: 5913215

DOCUMENT-IDENTIFIER: US 5913215 A

TITLE: Browse by prompted keyword phrases with an improved method for obtaining an initial document set

20. Document ID: US 5870464 A

L9: Entry 20 of 24

File: USPT

Feb 9, 1999

US-PAT-NO: 5870464

DOCUMENT-IDENTIFIER: US 5870464 A

TITLE: Intelligent information routing system and method

Full Title Citation Front Review Classification Date Reference Sequences Attachments KNMC Draw. Desc Image

21. Document ID: US 5864871 A

L9: Entry 21 of 24

File: USPT

Jan 26, 1999

US-PAT-NO: 5864871

DOCUMENT-IDENTIFIER: US 5864871 A

TITLE: Information delivery system and method including on-line entitlements

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

22. Document ID: US 5822747 A

L9: Entry 22 of 24

File: USPT

Oct 13, 1998

US-PAT-NO: 5822747

DOCUMENT-IDENTIFIER: US 5822747 A

TITLE: System and method for optimizing database queries

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw. Desc Image

23. Document ID: US 5819255 A

L9: Entry 23 of 24

File: USPT

Oct 6, 1998

US-PAT-NO: 5819255

DOCUMENT-IDENTIFIER: US 5819255 A

TITLE: System and method for database query optimization

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

24. Document ID: US 5802518 A

L9: Entry 24 of 24

File: USPT

Sep 1, 1998

US-PAT-NO: 5802518

DOCUMENT-IDENTIFIER: US 5802518 A

TITLE: Information delivery system and method

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Sort by: Title Publication Publication Date Score				
Results 1 - 20 of 200 short listing				
Logic-based approach to semantic query optimization Upen S. Chakravarthy , John Grant , Jack Minker ACM Transactions on Database Systems (TODS) June 1990 Volume 15 Issue 2 The purpose of semantic query optimization is to use semantic knowledge (e.g., integrity constraints) for transforming a query into a form that may be answered more efficiently than the original version. In several previous papers we described and proved the correctness of a method for semantic query optimization in deductive databases couched in first-order logic. This paper consolidates the major results	100%			

A method for automatic rule derivation to support semantic query optimization

Michael Siegel, Edward Sciore, Sharon Salveter ACM Transactions on Database Systems (TODS) December 1992 Volume 17 Issue 4

The use of inference rules to support intelligent data processing is an increasingly important tool in many areas of computer science. In database systems, rules are used in semantic query optimization as a method for reducing query processing costs. The savings is dependent

of these papers emphasizing the techniques and their applicability for

on the ability of experts to supply a set of useful vales and the ability of the optimizer to quickly find the appropriate transformations generated by these rules. Unfortunately, the most useful rules are not always th ...

**3** Semantic query optimization in Datalog programs (extended abstract) 97% Alon Y. Levy , Yehoshua Sagiv

Proceedings of the fourteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems May 1995

4 Stochastic query optimization in distributed databases

97%

P. E. Drenick , E. J. Smith
ACM Transactions on Database Systems (TODS) June 1993
Volume 18 Issue 2

Many algorithms have been devised for minimizing the costs associated with obtaining the answer to a single, isolated query in a distributed database system. However, if more than one query may be processed by the system at the same time and if the arrival times of the queries are unknown, the determination of optimal query-processing strategies becomes a stochastic optimization problem. In order to cope with such problems, a theoretical state-transition model is presented that treats the s ...

**5** Quick and incomplete responses

96%

Chung-Dak Shum

Proceedings of the second international conference on Information and knowledge management December 1993

**6** The impact of logic programming on databases

95%

John Grant , Jack Minker

Communications of the ACM March 1992 Volume 35 Issue 3

7 Query Optimization in Database Systems

95%

Matthias Jarke , Jurgen Koch
ACM Computing Surveys (CSUR) June 1984

Volume 16 Issue 2

8 Materialized view maintenance and integrity constraint checking

94%

- Kenneth A. Ross, Divesh Srivastava, S. Sudarshan
  ACM SIGMOD Record, Proceedings of the 1996 ACM SIGMOD international conference on Management of data June 1996
  Volume 25 Issue 2
- **9** Optimization techniques for queries with expensive methods

94%

Joseph M. Hellerstell

ACM Transactions on Database Systems (TODS) June 1998 Volume 23 Issue 2

Object-relational database management systems allow knowledgeable users to define new data types as well as new methods (operators) for the types. This flexibility produces an attendant complexity, which must be handled in new ways for an object-relational database management system to be efficient. In this article we study techniques for optimizing queries that contain time-consuming methods. The focus of traditional query optimizers has been on the choice of join methods and orders; selec ...

10 Federated database systems for managing distributed,

92%

heterogeneous, and autonomous databases
Amit P. Sheth , James A. Larson
ACM Computing Surveys (CSUR) September 1990
Volume 22 Issue 3

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

**11** Modelling concepts for reasoning about access to knowledge

92%

Jonathan J. King

Proceedings of the 1980 workshop on Data abstraction, databases and conceptual modeling June 1980

There is growing agreement about the usefulness of putting semantic database constraints into explicit form that can be manipulated by various database management programs. Indeed, this is a prerequisite for building intelligent database mediators. These are programs that perform the task of a good database analyst: to pose the most effective and easily processed queries to help solve a problem. Semantic query optimization is a technique to exploit semantic ...

**12** Set query optimization in distributed database systems

92%

Bezalel Gavish , Arie Segev

ACM Transactions on Database Systems (TODS) August 1986 Volume 11 Issue 3

This paper addresses the problem of optimizing queries that involve set operations (set queries) in a distributed relational database system. A particular emphasis is put on the optimization of such queries in horizontally partitioned database systems. A mathematical programming model of the set query problem is developed and its NP-completeness is proved. Solution procedures are proposed and

computational results presented. One of the main esults of the computational experiments is that, ...

**13** Semantic query processing in object-oriented databases using deductive approach

92%

S. C. Yoon , I. Y. Song , E. K. Park

Proceedings of the fourth international conference on Information and knowledge management December 1995

**14** Predicate migration

92%

Joseph M. Hellerstein , Michael Stonebraker
ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data June 1993
Volume 22 Issue 2

The traditional focus of relational query optimization schemes has been on the choice of join methods and join orders. Restrictions have typically been handled in query optimizers by " predicate pushdown" rules, which apply restrictions in some random order before as many joins as possible. These rules work under the assumption that restriction is essentially a zero-time operation. However, today's extensible and object-oriented database systems allow users to define time-consumi ...

15 On saying " Enough already! " in SQL

90%

Michael J. Carey, Donald Kossmann
ACM SIGMOD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data June 1997
Volume 26 Issue 2

In this paper, we study a simple SQL extension that enables query writers to explicitly limit the cardinality of a query result. We examine its impact on the query optimization and run-time execution components of a relational DBMS, presenting two approaches— a Conservative approach and an Aggressive approach— to exploiting cardinality limits in relational query plans. Results obtained from an empirical study conducted using DB2 demonstrate the benefits of the SQL extensio ...

16 Query processing in a distributed data base

90%

Diane Jantz , E. A. Unger , R. McBride , Jacob Slonim
Proceedings of the 1983 ACM conference on Personal and small computers
December 1983

The current research on optimizing algorithms for queries in distributed data base networks is presented. An identification of additional factors which add cost and time to processing of a query both at a node and in the transporting of data along a link in the network is given. The idea of a user topology is presented as the basis for a query optimization algorithm and the effects of a user's query constraints on the user

topology are illustrated. With the influencing factors on a query re ...

17 Optimization of join operations in horizontally partitioned database 9 systems

90%

Arie Segev

ACM Transactions on Database Systems (TODS) March 1986 Volume 11 Issue 1

This paper analyzes the problem of joining two horizontally partitioned relations in a distributed database system. Two types of semijoin strategies are introduced, local and remote. Local semijoins are performed at the site of the restricted relation (or fragment), and remote semijoins can be performed at an arbitrary site. A mathematical model of a semijoin strategy for the case of remote semijoins is developed, and lower bounding and heuristic procedures are proposed. The results of comp ...

18 Managing periodically updated data in relational databases

90%

Avigdor Gal , Jonathan Eckstein

Journal of the ACM (JACM) November 2001

Volume 48 Issue 6

Recent trends in information management involve the periodic transcription of data onto secondary devices in a networked environment, and the proper scheduling of these transcriptions is critical for efficient data management. To assist in the scheduling process, we are interested in modeling data obsolescence, that is, the reduction of consistency over time between a relation and its replica. The modeling is based on techniques from the field of stochastic processes, and provides several ...

19 Processing queries for first-few answers

90%

Roberto J. Bayardo , Daniel P. Miranker
Proceedings of the fifth international confer

Proceedings of the fifth international conference on Information and knowledge management November 1996

20 Reformulating query plans for multidatabase systems

90%

Chun-Nan Hsu , Craig A. Knoblock

Proceedings of the second international conference on Information and knowledge management December 1993

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